

SEQUENCE LISTING

RECEIVED

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1600/2000

<110> Mello, Charlene M.
Arcidiacono, Steven

<120> Novel Purification and Fiber Spinning Techniques for
Protein Fibers

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<140> 09/490,291

<141> 2000-01-20

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<211> 876

<212> DNA

<213> Nephila clavipes

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  35          40          45
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  50          55          60
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  65          70          75          80
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 225 230 235 240
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 245 250 255
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 <212> DNA
 <213> *Nephila clavipes*

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  20              25              30

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  35              40              45

Ser Gln Gly Thr Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly
  50              55              60

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Gly Ala Gly Gln Gly
  65              70              75              80

Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr Ser Gly Arg Gly Gly Leu
  85              90              95

Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
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Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr
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Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala
 130              135              140

Ala Ala Ala Ala Ala Ala Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly
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Leu Gly Ser Gln Gly Thr Ser Gly Pro Gly Gly Tyr Gly Pro Gly Gln
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Gln Thr Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly Ala Ala
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 225 230 235 240
 Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr Ser Gly
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 Ala Ala Ala Ala Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly
 275 280 285
 Ser Gln Gly Thr Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly
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 340 345 350
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 370 375 380
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 385 390 395 400
 Ala Ala Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln
 405 410 415
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 420 425 430
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 435 440 445
 Gly Gly Leu Gly Ser Gln Gly Thr Ser Gly Arg Gly Gly Leu Gly Gly
 450 455 460
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 Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr Ser Gly
 485 490 495
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 500 505 510
 Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala
 515 520 525

Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr
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 Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala
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 565 570 575
 Leu Gly Ser Gln Gly Thr Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly
 580 585 590
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 595 600 605
 Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr Ser Gly Arg Gly
 610 615 620
 Gly Leu Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Ala Ala
 625 630 635 640
 Ala Ala Gly Gly Ala Gly Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln
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<211> 691
<212> PRT
<213> Nephila clavipes

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Leu Gly Ser Gln Gly Thr Ser Gly Arg Gly Gly Leu Gly Gly Gln Gly
50 55 60
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65 70 75 80
Gln Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Thr Ser Gly Arg Gly
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225 230 235 240

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 <212> DNA
 <213> *Nephila clavipes*

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 <213> Nephila clavipes

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 225 230 235 240
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 260 265 270
 Gly Arg Gly Gly Gln Gly Ala Gly Ala Ala Ala Ala Ala Gly Gly
 275 280 285
 Ala Gly Gln Gly Gly Tyr Gly Gly Gln Gly Ala Gly Gln Gly Gly Tyr
 290 295 300

Gly Gly Leu Gly Ser Gln Gly Ala Gly Arg Gly Gly Leu Gly Gly Gln
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 325 330 335
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 340 345 350
 Gly Ala Gly Gln Gly Gly Leu Gly Gly Gln Gly Ala Gly Gln Gly Ala
 355 360 365
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 370 375 380
 Gly Gly Tyr Gly Gly Leu Gly Ser Gln Gly Ala Gly Arg Gly Gly Gln
 385 390 395 400
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 420 425 430
 Gln Gly Ala Gly Ala Ala Ala Ala Val Gly Ala Gly Gln Gly Gly Tyr
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 450 455 460
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 465 470 475 480
 Leu Val Ala Ser Gly Pro Thr Asn Ser Ala Ala Leu Ser Ser Thr Ile
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<210> 9
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 35 40 45
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 Thr Arg Leu Ala Phe Ala Gly Leu Lys Tyr Ala Asp Val Gly Ser Phe
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 Asp Tyr Gly Arg Asn Tyr Gly Val Val Tyr Asp Ala Leu Gly Tyr Thr
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 Asp Met Leu Pro Glu Phe Gly Gly Asp Thr Ala Tyr Ser Asp Asp Phe
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 Phe Val Gly Arg Val Gly Gly Val Ala Thr Tyr Arg Asn Ser Asn Phe
 130 135 140
 Phe Gly Leu Val Asp Gly Leu Asn Phe Ala Val Gln Tyr Leu Gly Lys
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 Asn Glu Arg Asp Thr Ala Arg Arg Ser Asn Gly Asp Gly Val Gly Gly
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 Ser Ile Ser Tyr Glu Tyr Glu Gly Phe Gly Ile Val Gly Ala Tyr Gly
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 Ala Ala Asp Arg Thr Asn Leu Gln Glu Ala Gln Pro Leu Gly Asn Gly
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 Thr Asn Lys Phe Thr Asn Thr Ser Gly Phe Ala Asn Lys Thr Gln Asp
 245 250 255
 Val Leu Leu Val Ala Gln Tyr Gln Phe Asp Phe Gly Leu Arg Pro Ser
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 Val Asp Leu Val Asn Tyr Phe Glu Val Gly Ala Thr Tyr Tyr Phe Asn
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 35 40 45
 Glu Ile Glu Asp Leu Lys Ala Lys Ile Gly Asp Leu Asn Asn Thr Ser
 50 55 60
 Gly Ile Arg Arg Pro Ala Ala Lys Leu Asn
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